

What is claimed is:

1. A device for purifying polluted water, comprising:
a water tank, further comprising:
an enclosure;
a water sensor positioned within the enclosure;
an ozone sensor positioned within the enclosure;
a water inlet formed through the enclosure;
a water outlet formed through the enclosure; and
a sonification generator positioned in sonic communication with the enclosure;
an ozone source in pneumatic communication with the enclosure;
a pump connected in hydraulic communication between the polluted water and the enclosure;
a microprocessor in electric communication with the water sensor, ozone sensor, ozone source and pump;
wherein the microprocessor is adapted to receive control signals from the water sensor and said ozone sensor; and
wherein the microprocessor is adapted to transmit control signals to actuate the water inlet and water outlet.
2. The device of claim 1 further comprising a water intake system including a strainer connected in hydraulic communication upstream of said pump, and an expansion tank connected in hydraulic communication downstream of said pump.
3. The device of claim 1 wherein said sonification generator includes an upstanding converter with arms positioned within said enclosure.

4. The device of claim 1 further comprising a vacuum accumulator and a vacuum pump connected in pneumatic communication with said enclosure for pressurizing the interior of said enclosure.

5. The device of claim 1 further comprising a filter hydraulically connected downstream of said expansion tank and upstream of the enclosure.

6. The device of claim 1 operably mounted for transport onto a motor vehicle or trailer.

7. The device of claim 3 wherein said converter is adapted to generate tones at a frequency of between about 25 and 45 kHz at up to about 5000 Watts.

8. The device of claim 4 wherein said sonification generator includes an upstanding converter with arms positioned within said enclosure.

9. The device of claim 7 mounted for transport onto a motor vehicle or trailer.

10. The device of claim 8 wherein said converter is adapted to generate tones at a frequency of between about 25 and 45 kHz at up to about 5000 Watts.

11. The device of claim 8 mounted for transport onto a motor vehicle or trailer.

12. A device for purifying polluted water, comprising:

a water tank, further comprising:

at least two enclosures;

a water sensor positioned within each of the enclosures;

an ozone sensor positioned within each of the enclosures;

a water inlet formed through the enclosures;

a water outlet formed through the enclosures; and

a sonification generator positioned in sonic communication with the enclosures;

an ozone source in pneumatic communication with the enclosures;

a pump connected in hydraulic communication between the polluted water and the enclosures;

a microprocessor in electric communication with the water sensors, ozone sensors, ozone source and pump;

wherein the microprocessor is adapted to receive control signals from the water sensors and the ozone sensors; and

wherein the microprocessor is adapted to transmit control signals for actuating the water inlets and water outlets such that the enclosures fill, and the water is ozonated, sonicated and discharged sequentially into the water tank.

13. The device of claim 12 further comprising a water intake system including a strainer connected in hydraulic communication upstream of said pump, and an expansion tank connected in hydraulic communication downstream of said pump.

14. The device of claim 13 further comprising a vacuum accumulator and a vacuum pump connected in pneumatic communication with said enclosure for pressurizing the interior of said enclosure.

15. The device of claim 14 wherein said sonification generator includes an upstanding converter with arms positioned within said enclosure.

16. The device of claim 15 operably mounted for transport onto a motor vehicle or trailer.

17. The device of claim 16 further comprising a water intake system including a strainer connected in hydraulic communication upstream of said pump, and an expansion tank connected in hydraulic communication downstream of said pump.

18. The device of claim 17 wherein said sonification generator includes an upstanding converter with arms positioned within said enclosure.

19. A method for purifying polluted water comprising the steps of:

pumping polluted water from a source into an enclosure;
pressurizing the water inside the enclosure;
subjecting the pressurized water inside the enclosure to ozone and
ultrasound at the same time; and,
discharging said water from said enclosure into a storage tank.

20. The method of claim 19 including at least two enclosures, said method further comprising the steps of electronically monitoring and controlling said pumping, said pressurizing, said subjecting and said discharging steps, wherein said enclosures are filled, and the water is ozonated, sonicated and discharged sequentially from the enclosures into the storage tank.

21. The method of claim 20 further comprising the steps of straining and filtering the polluted water between the source and the enclosure.